

Proceedings of XIII-th National Conference on Atomic and Molecular Physics held at the Department of Theoretical Physics, Indian Association for the Cultivation of Science, Jadavpur, Kolkata-700 032 during 16–20 January, 2001

Foreword

I like to avail of this opportunity to express my thanks to the Indian Society of Atomic and Molecular Physics (ISAMP) for selecting the Department of Theoretical Physics, Indian Association for the Cultivation of Science (IACS), Jadavpur, Kolkata 700 032, as the venue for holding XIII-th National Conference on Atomic and Molecular Physics (NCAMP). I acknowledge my sincere thanks, on behalf of the Organizing Committee, to the authorities of IACS, and the Theoretical Physics Department for the co-operations in various capacities that they have extended towards the smooth conducting of the conference and preparation of this Proceedings. I am also grateful to the Board of Editors, Indian Journal of Physics for agreeing to publish this proceedings in the IJP.

The importance of Atomic, Molecular and Optical Physics is well evident from the list of Nobel Prize awardees towards the end of the last century. The present domain of Atomic and Molecular Physics has widened to a great extent and Optical Physics plays an integral and important part of it. In view of this I opine that it is better to name the conference as “National Conference on Atomic, Molecular and Optical Physics”. This conference commemorated the Golden Jubilee year of Theoretical Physics Department, IACS and also the 125th year of IACS. The conference has provided a golden opportunity of exchanging views of researchers working in diverse field of atomic, molecular and optical physics. This proceedings consisting of contributed and invited papers will be of great help specially to the young researchers in that newly developed sub-sections to name a few, study of ultra cold atoms, matter-antimatter interaction, atomic laser leading to BEC of dilute atomic gases, by the renowned workers of India and also from abroad.

This conference is paid homage to the memory of Prof. T K Rai Dastidar, Material Science Dept., IACS, a session is dedicated after his name. There is a special session to felicitate three senior members of ISAMP.

I am indeed grateful to the faculties, staff members and scholars of IACS without whose active cooperation the conference could not have shaped to the present form.

Department of Theoretical Physics,
Indian Association for the Cultivation of Science, Jadavpur,
Kolkata-700 032
1st August, 2002

(Prof. A S Ghosh)
Guest Editor